

# Safety data sheet

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BASF 3D Printing safety data sheet. This is a translation of the country-specific safety data sheet into a language other than that required by law. This document does not replace the safety data sheet provided according to Regulation (EC) No 1907/2006.

Date / Revised: 07.02.2022 Version: 5.0
Date previous version: 09.11.2021 Previous version: 4.0

Date / First version: 19.06.2019 Product: **Ultracur3D RG 50 DMW** 

(ID no. 956212/SDS\_GEN\_EU/EN)

Date of print 07.03.2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

# Ultracur3D RG 50 DMW

**1.2.** Relevant identified uses of the substance or mixture and uses advised against Recommended use: resin, Printing inks, Chemical

# 1.3. Details of the supplier of the safety data sheet

<u>Company:</u>
BASF 3D Printing Solutions GmbH
Speyerer Str. 4
69115 Heidelberg, Germany

Telephone: +49 6221 67417 900 E-mail address: sales@basf-3dps.com

## 1.4. Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

#### **SECTION 2: Hazards Identification**

#### 2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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## According to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 (oral) H302 Harmful if swallowed. Skin Corr./Irrit. 2 H315 Causes skin irritation.

Eye Dam./Irrit. 1 H318 Causes serious eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT RE 2 (oral) H373 May cause damage to organs through prolonged or repeated

oral exposure.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

For the classifications not written out in full in this section the full text can be found in section 16.

# 2.2. Label elements

## Globally Harmonized System, EU (GHS)

Pictogram:





Hazard Statement:

H318 Causes serious eye damage. H315 Causes skin irritation.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated oral

exposure.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280 Wear protective gloves and eye protection or face protection.

P273 Avoid release to the environment.
P260 Do not breathe dust/gas/mist/vapours.

Precautionary Statements (Response):

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or physician.

Precautionary Statements (Disposal):

P501 Dispose of contents and container to hazardous or special waste

collection point.

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Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 29 %, dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 16 %, oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 63 %, Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 63 %, Inhalation - mist

## According to Regulation (EC) No 1272/2008 [CLP]

Hazard determining component(s) for labelling: 2-Propen-1-one, 1-(4-morpholinyl)-, diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide, (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate, 2,2'-Ethylenedioxydiethyl dimethacrylate

#### 2.3. Other hazards

#### According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

# **SECTION 3: Composition/Information on Ingredients**

## 3.1. Substances

Not applicable

#### 3.2. Mixtures

#### Chemical nature

Preparation based on: urethane, acrylates, Polymer

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

5-Ethyl-1,3-dioxane-5-methanol

Content (W/W): >= 0 % - < 3 % Eye Dam./Irrit. 2

CAS Number: 5187-23-5 H319

EC-Number: 225-967-8

# 2,2-bis(acryloyloxymethyl)butyl acrylate

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Content (W/W): >= 10 % - < 20 % Skin Corr./Irrit. 2
CAS Number: 15625-89-5 Eye Dam./Irrit. 2
EC-Number: 239-701-3 Skin Sens. 1
REACH registration number: 012119489896-11 Aquatic Chronic 1

INDEX-Number: 607-111-00-9 M-factor acute: 1

H319, H315, H317, H400, H410

diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Content (W/W): >= 1 % - < 3 % Skin Sens. 1B
CAS Number: 75980-60-8 Repr. 2 (fertility)
EC-Number: 278-355-8 Repr. 2 (unborn child)
Aquatic Chronic 2
H317, H361fd, H411

(5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Content (W/W): >= 25 % - < 50 % Skin Corr./Irrit. 2 CAS Number: 66492-51-1 Skin Sens. 1B EC-Number: 266-380-7 Aquatic Chronic 2 REACH registration number: 01-

2119976303-36

2,2'-Ethylenedioxydiethyl dimethacrylate

Content (W/W): >= 10 % - < 15 % Skin Sens. 1 CAS Number: 109-16-0 H317

CAS Number: 109-16-0 EC-Number: 203-652-6

REACH registration number: 01-

2119969287-21

2-Propen-1-one, 1-(4-morpholinyl)-

Content (W/W): >= 20 % - < 25 % Acute Tox. 4 (oral)
CAS Number: 5117-12-4 Eye Dam./Irrit. 1
EC-Number: 418-140-1 Skin Sens. 1
INDEX-Number: 613-222-00-3 STOT RE 2

H318, H302, H317, H373

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

# **SECTION 4: First-Aid Measures**

# 4.1. Description of first aid measures

Immediately remove contaminated clothing.

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#### If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

#### On skin contact:

Wash thoroughly with soap and water

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

## On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

## **SECTION 5: Fire-Fighting Measures**

## 5.1. Extinguishing media

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

## 5.2. Special hazards arising from the substance or mixture

Advice: Self-polymerization if overheated in a container.

Endangering substances: harmful vapours

Advice: Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

# 5.3. Advice for fire-fighters

Special protective equipment:

Wear a self-contained breathing apparatus.

#### Further information:

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure build up due to heat. Contaminated extinguishing water must be disposed of in accordance with official regulations. In case of a fire in the vicinity a restabilization system should be used if the temperature in the storage container reaches 45°C. Evacuate area of all unnecessary personnel. In

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case of a fire in the vicinity evacuate all personnel in a greater area if the temperature in the storage container reaches 60°C.

# **SECTION 6: Accidental Release Measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Take appropriate protective measures. Avoid contact with the skin, eyes and clothing. Ensure adequate ventilation. Use personal protective clothing. Breathing protection required. Avoid all sources of ignition: heat, sparks, open flame.

## 6.2. Environmental precautions

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

## 6.3. Methods and material for containment and cleaning up

For large amounts: Pump off product.

For residues: Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations.

#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

# **SECTION 7: Handling and Storage**

# 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. The substance/ product may be handled only by appropriately trained personnel. Ensure thorough ventilation of stores and work areas. Encapsulation or exhaust ventilation required. When filling, transferring, or emptying of containers, adequate local exhaust ventilation is necessary. Vent waste air to atmosphere only through suitable separators. Do not open warm or swollen product containers. Remove persons to safety and alert fire brigade. Because of the possible separation from the stabilizer the product should never be partially melted and taken. Ensure that there is no crystallized product in the container before use. Ensure adequate inhibitor and dissolved oxygen level. The temperatures which must be avoided are to be considered. Protect against heat. Protect from direct sunlight. Protect contents from the effects of light.

## Protection against fire and explosion:

Substance/product can form explosive mixture with air. It is recommended that all conductive parts of the machinery are grounded. Ground all transfer equipment properly to prevent electrostatic discharge. Containers should be grounded against electrostatic charge. Avoid all sources of ignition: heat, sparks, open flame. Vapours may form ignitable mixture with air. If exposed to fire, keep containers cool by spraying with water. Emergency cooling must be provided for the eventuality of a fire in the vicinity. Heated containers should be cooled to prevent polymerization. Sealed containers should be protected against heat as this results in pressure build-up. Avoid influence of heat.

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# 7.2. Conditions for safe storage, including any incompatibilities

The product in undamaged packing need not be stored separately.

Further information on storage conditions: Protect against heat. Protect from the effects of light. The stabilizer is only effective in the presence of oxygen.

Protect from temperatures below: -15 °C Protect from temperatures above: 40 °C

# 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

# **SECTION 8: Exposure Controls/Personal Protection**

## 8.1. Control parameters

Components with occupational exposure limits

No occupational exposure limits known.

## 8.2. Exposure controls

#### Personal protective equipment

Respiratory protection:

Suitable respiratory protection for higher concentrations or long-term effect: Gas filter for gases/vapours of organic compounds (boiling point >65 °C, e. g. EN 14387 Type A)

#### Hand protection:

Chemical resistant protective gloves (EN ISO 374-1)

Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): nitrile rubber (NBR) - 0.4 mm coating thickness

Supplementary note: The specifications are based on tests, literature data and information of glove manufacturers or are derived from similar substances by analogy. Due to many conditions (e.g. temperature) it must be considered, that the practical usage of a chemical-protective glove in practice may be much shorter than the permeation time determined through testing. Manufacturer's directions for use should be observed because of great diversity of types.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

# General safety and hygiene measures

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Under no circumstances should the product come into contact with the skin of pregnant women or be inhaled by them. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin, eyes and clothing. Avoid inhalation. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Store work clothing separately.

# **SECTION 9: Physical and Chemical Properties**

# 9.1. Information on basic physical and chemical properties

Form: liquid

Colour: slightly yellow clear

Odour: acrylic-like

Odour threshold:

Not determined due to potential health hazard by inhalation.

pH value: 2.1 - 11.4

(25 °C)

solidification temperature:

No data available.

Boiling point:  $> 35 \,^{\circ}\text{C}$ Flash point:  $> 100 \,^{\circ}\text{C}$ 

Evaporation rate:

No data available.

Flammability: not highly flammable (derived from flash point)

Lower explosion limit:

For liquids not relevant for classification and labelling., The lower explosion point may be 5 - 15

°C below the flash point.

Upper explosion limit:

For liquids not relevant for classification and labelling.

Ignition temperature:

No data available.

Vapour pressure:

No data available.

Density: 1.1 g/cm3

(20 °C)

Relative density: approx. 1.1

(20 °C)

No data available.

Relative vapour density (air):

not determined

Solubility in water: sparingly soluble

Solubility (qualitative) solvent(s): organic solvents

soluble

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Partitioning coefficient n-octanol/water (log Kow):

not applicable for mixtures

Self ignition: not self-igniting

Thermal decomposition: < 220 kJ/kgReaction heat in case of polymerization

75 °C

Risk of rapid violent polymerization.

Viscosity, dynamic: 64.7 mPa.s

(30 °C)

Explosion hazard: not explosive

Fire promoting properties: not fire-propagating

## 9.2. Other information

Self heating ability: not applicable, the product is a liquid

Hygroscopic hygroscopic

# **SECTION 10: Stability and Reactivity**

# 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: Corrosive effects to metal are not anticipated.

# 10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

#### 10.3. Possibility of hazardous reactions

Explosion and fire hazard exists under confined conditions. Ignitable air mixtures can form when the product is heated above the flash point and/or when sprayed or atomized. Formation of explosive gas/air mixtures. Reacts with peroxides and other radical components.

Risk of spontaneous polymerization when heated or in the presence of UV radiation. Polymerization coupled with heat formation. Radical formation can cause exothermic polymerization. Risk of spontaneous polymerization in the presence of radical donors.

#### 10.4. Conditions to avoid

Avoid heat. Avoid UV-light and other radiation with high energy. Avoid direct sunlight. Avoid prolonged storage. Avoid inhibitor loss.

# 10.5. Incompatible materials

Substances to avoid:

radical formers, free radical initiators, peroxides, mercaptans, nitro-compounds, azides, aldehydes, ether, ketones, nitrites, nitrates, oxidizing agents, reducing agents, strong bases, acid anhydrides, acid chlorides, metal salts, mineral acids, Inert gas

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# 10.6. Hazardous decomposition products

Hazardous decomposition products:

Gaseous products of degradation can be given off if the product is greatly overheated.

# **SECTION 11: Toxicological Information**

# 11.1. Information on toxicological effects

#### **Acute toxicity**

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg (OECD Guideline 423)

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Experimental/calculated data:

LD50 rat (oral): 588 mg/kg (OECD Guideline 401)

Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Experimental/calculated data:

LD50 rat (oral): 3,680 mg/kg (BASF-Test)

LD50 rat (oral): > 5,000 mg/kg (similar to OECD guideline 401)

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The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 29 %, dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 16 %, oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 63 %, Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 63 %, Inhalation - mist

# Irritation

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Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Assessment of irritating effects:

Eye contact causes irritation. Skin contact causes irritation.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of irritating effects:

May cause severe damage to the eyes. EU-classification Not irritating to the skin.

Information on: (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Assessment of irritating effects:

Not irritating to the eyes. Causes skin irritation.

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Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Experimental/calculated data: Skin corrosion/irritation rabbit: Irritant. (Draize test)

Information on: (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Experimental/calculated data: Skin corrosion/irritation

rabbit: Irritant. (OECD Guideline 404)

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Information on: 2-Propen-1-one, 1-(4-morpholinyl)-Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Experimental/calculated data: Serious eye damage/irritation rabbit: Irritant. (Draize test)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: skin sensitizing (OECD Guideline 429)

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Experimental/calculated data:

Guinea pig maximization test guinea pig: skin sensitizing (similar to OECD guideline 406)

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Information on: 2,2'-Ethylenedioxydiethyl dimethacrylate

Experimental/calculated data:

Guinea pig maximization test guinea pig: sensitizing (other)

In vitro assay: skin sensitizing (other)

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#### Germ cell mutagenicity

#### Assessment of mutagenicity:

Based on the ingredients, there is no suspicion of a mutagenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

#### Carcinogenicity

## Assessment of carcinogenicity:

The whole of the information assessable provides no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

## Reproductive toxicity

#### Assessment of reproduction toxicity:

Contains a component that causes reproductive toxicity in test animals. The potential to impair fertility cannot be excluded when given at high doses. The product has not been tested. The statement has been derived from the properties of the individual components.

#### **Developmental toxicity**

## Assessment of teratogenicity:

Based on the ingredients, there is no suspicion of a teratogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

# Specific target organ toxicity (single exposure)

Remarks: Based on available data, the classification criteria are not met.

## Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

# Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: 2-Propen-1-one, 1-(4-morpholinyl)-

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. EU-classification

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## Aspiration hazard

No aspiration hazard expected.

## Other relevant toxicity information

The product has not been tested. The statement has been derived from the properties of the individual components.

# **SECTION 12: Ecological Information**

# 12.1. Toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Information on: 2,2-bis(acryloyloxymethyl)butyl acrylate

Toxicity to fish:

LC50 (96 h) 0.87 mg/l, Brachydanio rerio (OECD 203; ISO 7346; 92/69/EEC, C.1, semistatic)

Information on: (5-Ethyl-1,3-dioxan-5-yl)methyl acrylate

Toxicity to fish:

LC50 (96 h) 4 mg/l, Oncorhynchus mykiss (OECD Guideline 203, semistatic)

The details of the toxic effect relate to the nominal concentration.

LC50 (96 h) 4.04 mg/l, Fish (calculated)

LC50 (96 h) 3.909 mg/l, Fish (calculated)

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#### 12.2. Persistence and degradability

Assessment biodegradation and elimination (H2O): Product is not expected to be readily biodegradable.

# 12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested.

## 12.4. Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

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#### 12.5. Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### 12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

#### 12.7. Additional information

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

# **SECTION 13: Disposal Considerations**

## 13.1. Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

Contaminated packaging:

Dispose of in accordance with national, state and local regulations.

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

# **SECTION 14: Transport Information**

# **Land transport**

**ADR** 

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TRIMETHYLOLPROPANE TRIACRYLATE)

Transport hazard class(es): 9. EHSM

Packing group: Ш Environmental hazards: yes

Special precautions for

user: None known

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UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TRIMETHYLOLPROPANE TRIACRYLATE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for None known

user:

#### **Inland waterway transport**

ADN

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TRIMETHYLOLPROPANE TRIACRYLATE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Special precautions for

for None known

user:

# Transport in inland waterway vessel

Not evaluated

# Sea transport

**IMDG** 

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TRIMETHYLOLPROPANE TRIACRYLATE)

Transport hazard class(es): 9, EHSM

Packing group: III Environmental hazards: yes

Marine pollutant: YES

Special precautions for

user:

None known

# Air transport

IATA/ICAO

UN number or ID number: UN 3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S. (contains TRIMETHYLOLPROPANE TRIACRYLATE)

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Transport hazard class(es): 9, EHSM Packing group: III Environmental hazards: yes

Special precautions for None known

user:

#### 14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

# 14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

## 14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

# 14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

#### 14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

# 14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

# 14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

## **Further information**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

# **SECTION 15: Regulatory Information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

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## Prohibitions, Restrictions and Authorizations

Annex XVII of Regulation (EC) No 1907/2006: Number on List: 3, 75

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU): List entry in regulation: E2

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

# 15.2. Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## **SECTION 16: Other Information**

Any other intended applications should be discussed with the manufacturer.

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned

in section 2 or 3:

Acute Tox. Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation

Eye Dam./Irrit. Serious eye damage/eye irritation

Skin Sens. Skin sensitization

STOT RE Specific target organ toxicity — repeated exposure Aquatic Chronic Hazardous to the aquatic environment - chronic Aquatic Acute Hazardous to the aquatic environment - acute

Repr. Reproductive toxicity

H318 Causes serious eye damage.

H315 Causes skin irritation. H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated oral

exposure.

H411 Toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure.

#### Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road. ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German

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national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Internediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.